IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	A. Christian Tahan	Examiner:	Robert W. Morgan
Application No:	09/784,751	Art Unit:	3626
Filing Date:	02/15/2001		
Title:	Method Of Using a Global Server For Providing Patient Medical Histories To Assist In the Delivery Of Emergency Medical Services		
Atty. Docket:	XWRLD-102		

SUPPLEMENTAL RULE 131 DECLARATION

Commissioner of Patents & Trademarks
U.S. Patent and Trademark Office
P. O. Box 1450
Alexandria, VA 22313-1450

Now comes A. Christian Tahan and deposes and says:

1.   That I am submitting this Supplemental Rule 131 Declaration to submit evidence that from July 22, 1996 until the constructive reduction to practice of the subject invention on February 15, 2001, that I did not abandon, suppress or conceal the claimed invention.

2.   That as can be seen in Appendix A hereto, I kept a journal indicating my progress towards a constructive reduction to practice, which dates indicate activity leading to the constructive reduction to practice on a month-by-month basis.

3.   That my computer logs are the way I documented my progress from the conception of the invention to the constructive reduction to practice.
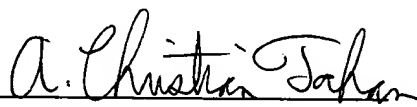
4.   That from the conception of the invention to the Schoenberg filing date of February 22, 2000, Appendix A shows ample evidence of diligence in terms of a continuing project that was not abandoned, suppressed or concealed.

5.   That the evidence of Appendix A also indicates diligence from July 22, 1996 through the filing date of the Zak et al. reference, namely April 26, 2000.

6.   That although not required to divulge the conception date of the present invention, Applicant has done so to show that from the conception date of July 22, 1996 and through the constructive reduction to practice, not only was the project not abandoned, strides were attempted throughout the entire period of time, with the evidence of Appendix A indicating no intention to abandon, suppress or conceal the invention, but rather the opposite, a continuing project.

Further deponent sayeth not.

I further declare that all the statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

A. Christian Tahan

Date: February 26, 2007

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APPENDIX A

August 05, 1996

I am extremely bothered that I am not well-prepared for the MCAT. But I cannot seem to motivate myself.
I am guessing that this will be a periodic diary since I do not have much time to input ideas and it is too time consuming.
I reviewed the last entry related to the technology ideas. I do not think the tennis ball idea or the idea related to tennis is that
great. So, I will likely forget about it. I enjoyed playing tennis with Mom. I do not know
why we do not keep doing it. I always have ideas. The good idea that I had from last time about the patient record I should think about more.
But I mentioned an idea about translation in Japanese. The idea of having a translation system with the software somewhere in the network is a good idea.
Most portable computers are terrible, bad screens, low memory, pretty basic. So, I do not know if you
could see the patient record and have the translation done on the unit at the same time. It would probably
take you forever. But if you had the translation somewhere else, then you could probably do many things.
For example, you could have your portable computer, maybe in the future they will be better to carry, pocket-size, whatever.
If you were connected to the cordless system or network, you could have translations even of voice.
I remember once I had to try to speak French to a patient in the emergency room where I volunteered that did not speak English.
If you had the portable computer, the person could speak in it, the communication cuold be translated in the network, and the person needing the english could
simply read it on his or her computer. So, you would have the input device, the network, the translation software on the network so that you
could use a portable device with the network, you can input voice or even text on the portable device if the person for exampel is deaf and only knows Spanish,
and the device thus cuodl receive sound or text from the network. Since you are using a network, you coudl have mutliple people on it. So, people can speak different languages
or the same language, speak into their computers, the network could translate the languages, and present the information
as text in a differnet language or in the same language or speech (a synthetic computer voice reading the text). So, you could
receive both text and speech simultaneuosly. Perhaps the receiver cuold decide on the language he wanted the text to be translated to.
So, a person in one country could be speaking in english in their computer, it does not have to be portable, the voice is sent as somesort of computer file maybe to the network
through the world wide web, the translation and editing of the file occurs, then a person in a different country can review it on his different computer in
a different language since the orignal speech or text was translated in the network and the receiver selected the language. But the same user
could receive the translation to his same computer. For example, the peron coudl be deaf and mute and could use a portable computer, and the voice and language of the person speaking in the computer
could be translated to text by the software in the netwrok so that the deaf person can see it on his computer. Perhaps the other person is french and blind, so the deaf could input text,
and the computer will speak it using the translation over the network. The portable computer would receive the translated file so that the blind can hear the person.
I heard the word internet recently in that the network coudl be the internet, telnet, or any network medium including cordless or computers connectde by cords.
The network notion of any type of network is true also for the patient records idea, and we coudl use cordless phone in that the portable unit could be a cordless phone with maybe a screen for viewing the text
or the patient records could appear on the phone. So the translation or speech to text conversion would be on the server and provided via the world wide web or

internet, etc. The text could be edited
in the network as at the server location. The use of servers is how the patient
record idea could work as well. The records would be stored on the server so that
they could be ready for whomever needs them and for
easy replacement with updated records. So, you would have a speaker, a speech to
text or vice versa software, a netork (servers), the world wide web, and the speech
to text could be edited or translated in the network to be
received by a different party at a different location or on the same computer unit.
I suppose the initial translation or speech to text conversion can be on the
computer of the speaker so that the translation or editing
in the network is of the text file to be received by the other party or by the same
party. But the translation and editing should be thought in the netwrok. Also, the
speech perhaps can be translated to a machine
language for the spaker to control a machine that is connected to the network.
Specificially, this idea is a communications method over a network involving
creating a speech to text conversion or a file at one location and transmitting the
translation even as a different language to a person at a computer or a machine at a

different location, including cordlesly if the person has a cordless phone with a
display or a personal computer. Also, the new information could
be received at the same location as the input especially if transaltion at the same
location or scene is needed.
August 06
I am a moron; I went to bed and woke up today Tuesday and read this entry and made
corrections, but I have spent too much time on this idea last night when I should
have been studying. I am not going to do anything else
but study for the exam until the exam is over. I am not going to edit my entries
any more since it is too time consuming. I do not see the point.

August 31, 1996
I took the MCAT and I am certain to have doen terribly on it. I am living with
Nevine and Guy now. I have
brought my computer with me since I cannot use Guy's. They gave me a birthday party
last night. God bless Danielle and Adel.
I am embarrassed by such things, I do not like parties for me.
I am only going to keep entries to the point relatde to the two ideas I have been
working-on. I lookde
at the voice translation idea. I think it is a good idea. It can be used for many
things, as for example sports events.
SOccer is an interantional sport. You coul have a soccer event in one country and
it transmitted to a different country.
The person in the diffeent country could read what is happening on his cmputer. The
text
of the event could be transmitde to him in english or maybe in any language. For
example, I am certain that
when the World Cup was in the US, many people abroad perhaps would not have minded
reading the events of a game
on their screen. The commentator would provide live commentary as the game is
occuring that would be read by the fan on his personal computer.
Related to the patient record idea, I am concerned that any person could access the
records. So, likely the
user would have to be a registered medical person with a specific personal ID they
input firstly
before reviewing the record. And I guess if the barcode idea is not used, a
specific number from a card or similar can be typed in
for the person injured. Also, the servers with the records could be regionally
distributed to allow for faster access of records.
SO, you could have the compelte record sent possibly including X-rays or just
information needed by the person at the scene. SO, a global warehousing of sorts
for fast access would be created.

September 15, 1996
I like working doing research. Certain people are weird. Again I am not going to spend too much time on this record.
I guess for the voice translation idea you could have news events or emergency informatino transalted to be seen
on the computer.
For the patient records, i am concerned about privacy. I suppose that if the patient agress to wear or carry an ID,
they do nto mind people accesing their record. I was simply thinking of Arthur Ashe and his records having been accessed.

October 15, 1996
Regarding patient privacy the patient could restric access to certain parts of the record that may not be needed ni
emergencies, but the doctor or a specific doctor could overwrite the restriction.
The voice to text thing idea could be use in courtrooms so that reporters could have immediate access on their computers.
The person that I have to share a lab with is really bizarre. He was cutting his nails at the computer in the lab. I am not going
to spend time wrigint about such things here. I think how I am keeping this record is good. I will make an effort to comment on the ideas every month.
If I think it is good and I have answered all the questions, problems, etc, maybe I will go to a patent attorney.

Novemebr 9, 1996
The medical information that is updated to the servers could be sent directly to the
next person
that needs them, the information being sent automatically with the sending of it
from the scene.
The system coul dbe used for presecriptions, sending information directly to
pharmacies.

November 12, 1996

I was thinking bout the voice idea. You could probably use them in operas or theatres also. I do not understand
what operas are saying. The idea could help.

November 16, 1996
For the opera idea, the screaming may make translation difficult. So, I do not know
if it is a good idea. But you could use
it for a foreign film or play.
I am growing tired of working with the people in the lab.

December 7, 1996

I may have to move-in with Nadine because she is insisting. But I want to find my own place.

I am thinking about the ideas. The patient record idea could be incorporated with insurance companies. They could receive insurance related informatino as soon as a person is hurt. I do not know if such an idea is valuable to insurers to have the information fast. Also, I think the person injured restricing access is a good idea.

I may go look for a speach to text program in the store. I do not know if I will have time since I have a ton of work to do in the lab. Also, I may want to start to learn how to create a program. I think the sports idea is really good.

Sports is so popular. You could possibly have the text received on your cordless phone or personal computer that is cordless and you carry around.

December 14, 1996
I am looking forward to Christmas. I do not know if soccer games will be that enjoyable in text.
I am guesing that perhaps the slower games as baseball or soccer may be best since they involve less commentary.
The games are slower and perhaps the system I am describing could work better with them.
Perhaps even in such slow games statistics could be associatde with the commentary.
You coudl receive on your portable computer information about each player with the live commentary.
I think the patient record idea is very good. Just gettin rid of all the paper records that probably take up so much space may be desired.

January 13, 1997

My dad was not happy I accepted this job since it pays poorly. I am beginning to think he was right.

Maybe a person could save their patient record on their ID card or in their bracelet to be immediately available.

I gues it would just involve a chip.

The voice tanslation or speech to text idea could be used like a translation device that you always carry with you,

especially if you are on holiday in a separate country.

February 8, 1997
Valentine's Day is approaching. The girls in the lab are strange. I am beginning
to think that perhaps it is me that is strange.
I am sleeping too much. Nadine is too nice.
I was thinking that the patient record idea may not be possible now since I am
guessing that medical
people wuold have to agree to use it and the technology may not be ready. I do not
know.
The same idea could be for the voice translation idea. I do nto know the quality of
the software
and if it can be palced on a network. The cost for jsut creating the network liekly
would be outrageous.

March 4, 1997
I am beginning to hate what I am doing. The guy with whom I am sharing the lab is
not normal.
Other people tell me such thoughts as well. I am beginning to look to what to do
next year.
I do not have the money to pursue the ideas since my Dad was right in that my pay is
too low.
The main obstacle for the patient record idea is that physicians would have to adopt
the new technology,
and they are always hwsitant to use new technology.
The obtacle for the voice to text idea is tha I do not know if the technology is
good enough for use by people that need it
or could use it. I would guess that with so many accents, translatino software is
far from perfect.
I think then I will have to look for opportunities to continue schooling unless I
decide to stay in the lab.

April 03, 1997

I would not mind finding a part-time job after work, but the contract I signed indicated that I am not allowed to do so. So, I am stuck working all of my hours in the lab.

I am nervous about telling people about my ideas since I am afraid they will steal them.

So, I keep them to myself. I am starting to learn HTML so that I can learn to build webpages

for the medical idea.

Also, I could use the HTML for the speech idea, but I may have to learn a different language.

So, all I do now is work and study various things and consider what I am going to do next.

Maybe the editign for the speech idea could be a manual edit by a human in the network, which could improve

the system.

I do nto know if emergency persons at the scene will want to use the patient record idea. It would have to make their jobs easier and not be difficult to use.

May 03, 1997
I am part of a softball team named the Weasels. The distraction is good, and the guys are good people.
I was thinking today that background noise would be a problem with the voice to text idea.
So, I do not know if you could use it with a good amount of suround sound. I am uncertain which
idea is better. I am guessing the records idea. A physician could have a record on his personal computer
for a neighbor he found lying on the street. People globally could be helped. The speech to text idea could
help people globally also, especialyl the deaf.

May 24, 1997
I am sleping too much. I have to get my act together, but the lab tires me. I do nto know
if it is the stress of working with the guy in the lab. I am not particularly happy in my life.
I may simply need a girlfriend or more friends genearlly, but I am not long enough out of the lab to go socialize.
I am considering going to graduate school. I would liek to study neuroscience. I must not spend too much time on such subjects.
I must stick to the ideas.
HTML is pretty easy. I may try to learn a different language. So, the medical records cuold be accessde through a webpage on the internet.
The webpage coudl be a simple HTML site.
I do not know how the voice to text site could work. I guess it coudl be a website as well on the internet, but I do not know if
simple html will do it. I have to think about it.

June 15, 1997
I cannot sleep. Maybe I should get a check-up and talk about the sleep issue. I wonder where my
patient record is kept. If I was ever injured or needed help, where would it be found.
Or if I coudl nto speak english and I were injured. So, both technologies could be useful and coudl be used together.
So, the medical idea could be at a website and the speech idea could be automatically on the computer unit to be used throuth the network capability of the unit.
I think it is logical, the speech is focused on th specific user and machine and the record can be accessed from any machine.
I am guessing this route may be best since I do not know if the machine or software would have to become adjusted
to the person's voice and accent.

July 13, 1997
I do not know why I am keeping this journal. I do not know if I can ever use the ideas even
though they are good. I have other ideas that are not mentioned. I think one problem that I want to avoid is
to have too many ideas simultaneously and be distracted. I want to stick with ideas and get them done
rather than having nothing done.
The medical patient record is good especially if it can allow for immediate sending of inforamtion to a pharmacy
since doctor's handwriting is terrible. To prevent errors at the pharmacy, the typed in request coudl be sent with the sending of the updated record
to the server.
The speech to text idea likely would not work with a fast sport like basketball.
I guess it could work but a slower game could allow for manual editing if needed.

August 09, 1997

I am going to be leaving the lab and going to Cambridge next year. I likely will take the computer since I am uncertain if I will have a computer in my room.

One notion about the speak to text idea is that the language can be translated firslty to a universal language
before being translated to the required language,. Teh universal language can be more easily handled by the speech softwae.

Or perhaps if we adopt an overall universal language, people around the world coudl speak and learn it. But I gfuess that is what
english is or is becoming.

The patient records idea coudl start off in between partnering hospitals. Perhaps hospitals coudl create colalboratinos or be owned by a single company. So, it would be easier to at least implement
a network or allow for a network to exist between the hospitals for the sharing of records, which would be helpful
to the perosn with the personal computer since perhaps they could simply connect to a specific hospital network for the record especially if the
sick person is not carrying an ID and only has person information as name and Social Security Number.

August 23, 1997

I have mixde feeling sabout leaving NIH. I have no mentioend the name of the weird guy
since I do not want to remember him, but likely I will never forget him. One event that I will likely always
rememeber is that he threw-out one of my samples that I had on the GC machine for analysis.
I do not what happened as a result since I know he had a meeting with the lab chief. I will be
starting graduate studies in October.
I hhave been reading that insurers have legacy computer systems so that I do nto know how difficult the use of the medical system
will be with insurers.
I do not know how easy the speech to text system coudl work over all. So many accents exist that it may not work or
may not be a system for the general population. It may be for specific uses by specific peopel as sports
commentators. I am really taken by the sports idea. And the notion or a play or film being translated woudl be great for the deaf.

September 20, 1997
I am going to miss my family. I am not happy that my sister and I are not
particularly close.
I am not happy they live in the middle of nowhere. I wish they were closer to a
large city or an easier place to reach.
But the notion of being in the middle of nowhwere is an issue for the medical
reords. Could they
be deliverde to the middle of nowhere? I believe so if you use sattelites, unless
you are already indoors
with a hardwired network of computers.
The speech to text system could be used indoors, but if you were to go o a theatre,
I suppose you would have to have a way to connect to the network
or Internet on your personal computer. Perhaps jacks could be near seats or
somesort of relay system coudl be in buildings that may connect to a
sattelite system on the roof.

October 19, 1997
I was at one point thinking of myself as an idiot for having brought this computer here. But the computers I need are so far away
that having a computer in the room even if it is a simple one is convenient. I am not happy that my supervisor is so busy with affairs and we
do not have a project on which I should be working. I told him that I should have a project as soon as possible, but he is busy with his own affairs.
There are many things that I want to do and I hope I can do them here. I hoep I can learn more computer languages.
I hoep my neuroscience studies progress well, maybe I can write a book like I have always wanted.
The speech to text system could best be used in a place like Europe where many languages are existing.
The medical records idea can be used anywhere. For example, if you are traveling in a foreign country and are injured, hospital people could
read your records through the network. They would know who you are.

November 16, 1997
I am not pleased with how my studies are progressing. I was hoping to be working on a project by now.
I am distracted by wanting to do other things. I need to speak to my supervisor again. I keep thinking
of why I do not simply go and do other things especiall since the college keeps bothering me about tuitiion.
They seem more interested in my paying bills than my academic growth.
I know a Spanish woman with whom I cannot communicate since she does nto speak english. If my system were in place,
I coudl use it. I honestyl do not know what I am doing with these comments every once and a while. I should do better research
about the ideas if I am serious about them. Can the patient record idea be implemented at least
between partnering hospitals? Can the speech to text system be creatde involving the Internet?
I believe the patient record idea can work between hospitals. I do nto know if the speech technology is good enough to
allow for the speech to text system now. I may start to learn th programming language C if I have time
to better understand if I can build or improve a speech program.

December 13, 1997
I could not sleep well last night. The housekeeper keeps bothering me about not putting sheets on my bed, but
I do not like to use sheets and I wish no one would clean my room. The housekeeper is very rude. I may need to speak
to someone about needing more privacy. I am looking forward to Christamas as always. My sister always
is in a bad mood on Christmas Day. I hope this year will be different.
Regarding the patient record system, the technology is unique in that it allows for immediate acces to the records, it is
useful from the field or by emergency people away from the hospital, when you send the inputed information the record is updated automatically,
and the record is saved for use by a different party.
The speech to text system is similar in that perhaps the network or servers in the network coudl remember key words or phrases
since people use the same phrases often to allow for more accurate translation of words to text or the user could train the system
to identify specific words and to manually correct the words so that they are always translated correctly. The words would be saved so that
for example sports broadcaster coudl talk and not worry that a word is translated improperly. Also, the sportscaster
could possibly type in words and the network could translate them for the fans to receive in perhaps
a different language.

January 11, 1998
I do not know if I want to return since I feel constrained there and limited. I have
so much that I want to do.
Relted to security for the medical reords idea, multiple or a plurality of security
codes could exist. Perhaps
the codes could be in a hierarchy format with more codes more valuable than others
or certain codes having to be inputed firstly.
The combination of codes could have to be inputed before access to a record would be
allowed.
Also, the database coudl have a hierarchy of sors to allow for the proper storing of
informatino in that perhaps with one code
certain informaino can be accessed, but all the codes would be needed to access the
most sensitive of information.
The speech to text system could also have secutiry codes in that the initial user
would input his password and his specific set of
words or vocabulary with pronounciations, etc would appear so that it would be
specific for his use. The system thus can be used by multiple people even
from the same computer and would improve the software in the system in that it would
be more reliable.

February 08, 1998
I may change labs. I am not satisfied with how I am progressig with my supervisor.
I am going to investigate the matter. I do not know why I just do not get a job and work
on the ideas if I am serious about them instead of putting it off.
Related to the patient record idea, the network allows for the idea that not all the information for the patient needs
to be on the same server. The access codes would automatically network the information on different servers adn send them to the party that
needs them. So, you could have X-rays on one server, and blood work on another, but the input of the patients id could bring them all together
and send it to the requester whereever globally.
The same could be true for the sporting event. The broadcaster may present games from different venues. So, his speech files could be saved at different
venue servers. So, input of his password would allow for all vocabulary recordings or specific statistics from games
to be networked so that he coudl use them or so that a fan could even review past games from the broadcaster.

March 08, 1998
I am learning C and spending more time learning other matters than studying
neuroscience sicne I cannot
progress without a specific project. My supervisor has me working on a project that
is not what I expected and I am no longer interested.
I do nto think C can work for the speech to text system. Also, since this computer
is not on the internet,
I am having to use a computer at the college for compiling. I could use HTML for
the website designs for the speech and medical idea, but I am looking to
see if C coudl help me with the speech to text sending over the internet or for the
improvement of speech
to text programs. C might not be the right language. I might ask or do some
studying.

March 28, 1998
My supervisor has indicated to me that he does not feel that my mind is right for
research. I am not certain what
he meant but he gave me somesort of supperiority of the researcher mind speech and I
have
no idea why he needed to be so rude. I think he feels offended by me, but
I simply need to work in a lab that will allow me to work on a project consistently.
Maybe he is right, maybe my mind is elsewhere, but I feel restricted here. I have
many
projects on which I want to work and I cannot do them here.
The medical records idea would mainly be stalled by doctors not wanting to use the
technology.
The speech to text system would be stalled by bad conversions. But it cuold be
simple
conversinos as for sporting events as with Jones or number 5 dribbles and scores.
Soccer is popular here
and I can imagine the usefulness of the technology accross borders for the sending
of sport broadcasts in text.
I do nto know why anyone would prefer a paper record to a networked global server of
electronic records that could be accessed quickly and easily
from any location even with a portable, cordless computer.

April 26, 1998
I hate that I have to travel so far to the college to have dinner. I perhaps should purchase food.
I miss my family, I hate the idea that I have a washing machien but no dryer, and I do not know
if I am the perons that shoudl be held responsible for matters not progressing well. I am working hard, but I do not
understand the lack of progression. I cannot seem to focues as the two ideas are always in mind apart frmo a book idea dn my desire to
learn how to write programs.
I am thinking of volunteering at a hospital here, but I do nto have time and should find
a paying job since I need pocket money. I know that ambulance services are more advanced in France form what I have heard, but
services in the UK seem the same as the US. I did a search on the internet and apparently patient privacy is a significant issue, though
my specific global system is not in the searches I undertook. It is novel.
Also, I think my speech to text system could be extremely useful in the UK since they are so close to
many countries with different languages.

May 25, 1998
I am in a different lab and the work is okay now that I have a specific project. My
previous supervisor spoke poorly of me to the new guy.
So, he is not always so open with me and I do not know if he is serious abuot giving
me a chance.
All I have ever wanted is a chance. I do not know why matters did not progress
before, but I am looking ahead.
The World Cup is this year. I do not have the time to build the speech to text
system that I was envisioning to try to market it to peopel running the show.
Besides I think that such a system is best created with Java, but I am only now
gettign a hang of C.
Website design using html is pretty easy. An interface for the medical worker to
input the access code for the record is not difficult to build. The
database incorporation and the networking of the servers with the database is the
difficulty. I do not have the time or money and I do not
want to ruin the opertunity I have in the new lab by not being focused.

June 25, 1998

I am not happy here. My supervisor is not giving me a chance. I think it is me, I just have too many other things that I rather be doing.
I am working hard and making progress, but his expectations according to a colleague are not normal even to expect them of a person with much more experience in the field than me.
I was thinking that the medical records need not be complete records since I rememebr some records being inches thick.
They could be only the vital information.
The same coudl be true with the speech to text system. Compelte sentences perhaps need not be used. Main words without certain unnecessary words that are not needed for understanding the sentence can be presented rather than every word that may slow the system or cause errors.

July 25, 1998
I am growing my hair long. I may get it cut though since the Summer is hot.
I am trying to understand if I can set-up a server here so that when I go home, I can communicate with it
for the medical idea and for the speech to text over the internet idea. I could practice by saving pseudo-medical files
or send speech to text with any translation engine coupled to the server. I will have to consider it more.

August 23, 1998
My birthday is next week and it will be for the first time I believe in my entire
life that I will be alone for my birthday. Since being here
my grandmother died, I am being continuously put-down by my superviser, I am hungry,
lack pocket money,
and the college seems to only want me to pay tuiition and does not seem to care
about my advances academically.
I am beginning to condier leaving since I feel restricted and cannot accomplish all
of my goals here.
I am considering going home, getting a job, making some money, and working on the
two ideas I have been working on. Then I can start creating new ideas.
I was thinking today that the global medical record system coudl be used for
epidemiology by countries
that woudl need it more for keeping an eye on the spread of disease or to create new
records for people without them previously.
Maybe the speech tp text system could be used for places like the UN to eliminate
the trnslator roles. But it is a good idea for courts
since it coudl get rid of the need for stenographers or coudl help them do a better
or faster job.

September 19, 1998

I have stopped coding in C since I do not see much of a point and the bike ride to the computers takes too long.

I do not have the time. I have basically stopped practicing tricks on the BMX bike I purchased. I do nto have the time.

I am disappointed nothing is not working well here. I cannot blame myself because I am working and have always worked

extremely hard. I was thinking that I am distracted with other thoughts., but I have always been working on muliple subjects.

I simply do not know what is wrong. I accept full responsiblity, but my colleagues tell me that I am receiving no support

from my supervisor and that it is far from my fault.

I wonder if the global sytem of records due to the server distribution coudl lead to a standard medical record for everyone in the world or at least in one country.

It would be good since it coudl more easily be stored and communicated since it would be familiar to all that saw it.

I do nto think that the speech to text system will lead to one language, english is as close as a universal language as can be. I am going to investigate if I can write

a speech to text program. I am curious how to do it.

October 18, 1998
I wonder how many people in the world do not have a medical record. I wonder if my system
coudl reduce the cost for insurance since insurers will save money by knowing sooner about injuries.
I wonder if my speech system coul dmake communications easier bewtten peopel of different countries. I am guessing that expressions in one country will not translate well or be understood in the same way in a different country so that a person coudl be offended by a comment that is to be a compliment.
I have decided to leave in Decemebr and not return. I am suffering frmo a stomach virus or maybe food poisening
that is keeping me from the lab. I told them about it, and no one has come to check on me since. I am not so bad as to need
to go to the hospital, but I cannot hold down food or I have diahrea.

November 15, 1998

I am considering going on a hoiday before I leave to at least have had some fun. I do not know if
differnet emergency agencies need different records. I am uncertain if a standard exists even in the same type of emergency groups as firmen,
ambulance people, etc nationally or internaionally. Standard records would allow for easier implmentation of the system.

I do not know what sort of ID would be usde. Perhaps a letter and number combination.

I do not know what languages are not covered by speech to text systems. I am guessing not every language is in the software and I am guessing
that some pick-up certain accents better than others. So, I hope that I will not have to develop my own softare for every region with different
accents. The training of the system and saving the preferences per user or something similar would be best.

December 15, 1998
I am giving away a large number of items since I need to reduce the amount that I carry back. I am going to miss my friends.
When I return I will likely try to learn computer languages, maybe retake the MCAT, and maybe volunteer.
I did a search for personal portable computers adn I do not think based on what I saw that they could handle the communications of medical records.
Also, I do not know where the servers for the speech to text system would be housed. I do not know if I wuodl have to have an office in each area where I want the servers.
Since it is internet based, I guess not, the servers will already be in place. I simply have to make certain to implement the software. The medical record system servers adn databases
could exist at participating hospitals or treatment centers. In other words, I could implment the connection software or put in place a new server
at a hospital for connectivity.

January 10, 1999
I am depressed. I am uncertain what I am going to do. I am planning to retake the MCAT in April.
Also, I am going to help my Dad try to lose weight. I am being tough on him to try to encourage him.
This computer has served me well. I have used it for years. But for the global medical servers, you would need the
best portable computers that coudl receive information and send new information quickly. If it is too slow, it will be no good.
The speech to text system would be easier since you do nto need liklely as much memory, but sped would still be an issue since a user
would not want to wait too long for the translation from the internet.

February 10, 1999
I am unmotivated to study for the MCAT. I am beginning to think I made a mistake in leaving adn coming back home.
I do not have time to learn to program with other languages. My parents are kind to allow me to be here until I work matters out.
I remember that the computer that was used in the hospital where I volunteered was a simple 486. So, the receving computer or hospital computer in the
need not be the top of the line. But cordless communications is liekly more consuming on computer resources and I cannot waste time trying to put the medical system in place now.
I will have to work on it occassionally when I have a moment, but it seems that being thruogh the internet woudl be the easiest route.
I do nto see how the speech to text system could exist away from the internet.

March 10, 1999
My parents are relaxed and happy just being together. They are happy being simple.
I think I am too complicated.
I was looking at the phone in the car and it is far too primitive to receive medical
inforamtion. But if the screen were increased
I think a barcode reader or card scanner coudl be implaced and it could at least be
used for simple or most relevant inforamtion.
But for the patient record system or for the speech to text system, you would need
the interent access in the car. Sending
information from a fast moving emergency vehicle maybe difficult. I think the speech
to text system may be the easest to imlemetn and is what I will likely
do first since not as many hurdles exist. I do nto know if I can begin to work on
it here since the area is too rural.

April 10, 1999
I am not ready for the MCAT. I do not know if I want to go to medical school. I am
trying to communicate with people in the Boston
area that I contacted when I was in Cambridge. I am looking to see if I can work in
a lab there. Boston would be a good
area to try-out the medical record idea since many hospitals exist there especailly
in groups or partnerships. Also,
the place is multi-national so that the speech system coudl be tried as well. But I
have to have an okay
salary since the cost seems may be or cuodl eb high. I perhaps cuodl try to learn
to code more languages in the Boston
area sicne I hear numerous schools are there. So, maybe I cuold build a team to
stat off with at least the speech idea.

May 09, 1999
Mom is a good cook and I have gained weight since returning. I may need to obtain a
salary soon. I do not want to stay here.
I cannot implement my ideas here. The ara is too rural and cordless communications
coudl require satellite communicaitons, which I cannot do.
I would not know with whom to communicate. UNless you need the internet or
networking yuo can use any computer. Internet and networking
require memory. The translation over the network is clever since it resolves what I
am experiencing now.
You do not need the software on your computer. You could use less powerful
computers to achieve the translation.
The medical records idea is not as simple since you need to receive the large
records. The speech idea should be first done since it seems simpler.

June 09, 1999
I have decided that I will move to Boston. I am communicating with a researcher
at Children's Hospital to join his lab. But I willnot leave until July or later in
the Summer.
I will take this computer but I will maybe have to buy a portable computer to begin
building the system on a larger scale. The same
portable computer cuodl be used for the medical record idea and the speech. But to
do so, I would have to find a top notch portable computer since the patient
record idea would take-up a good deal of memory. Also, I will have to better
investigate speech to text software. I like this computer as my personal computer.
I can use it for the briefest thoughts whenever I want.

July 9, 1999
I am leaving next week for Boston. I found a place to stay in a place called Revere
and the guy I spoke to
seems nice. But he says he has to meet me first. So, it is not definite yet. I do
nto think my parents
are happy since they were hoping I would stay longer. I am not hapy withmy Dad that
he eats so much. I wish I could
have helped him lose weight. I would not mind discussing the ideas with peopel but
I am afraid they wuodl steal them.
But I do nto know anyone in this area that could discuss them with me. I think I
will start the medical records system maybe with my record
or what I rememebr off the top of my head. So, it will be a system only with
necessary inforamtion for emergencies firstly.
I did a search on the internet or voice to speech and it is an extremely difficult
arena with peopel working
on it and not having always much success due to accents and jsut the different ways
peopel pronounce words.

August 8, 1999
I like living in Revere and the peope on my floor are okay people. I do not like
the idea that the beach is so close but the water is too cold
for swimming and I hear it is polluted. The room is hot since i do nto have air
conditioning. I hoep it does nto damage the omputer, but this thing has alsted. I
am not too worried.
I found a community center where I can learn more computing. I maybe could speak to
people there about the speech to text and patient records
systems involving the internet. They seem to give away computers or selel thm
cheaply. SO, I am goign to try to obtain a cmoputer that I can use as a server. I
need to obtain internet access for the room.
I do nto know of a provider in this area. I will check with the neighbors. I will
begin to study Java to see if I can use it for the speech to text system.

September 08, 1999
The subway system is great. I do nt need a car and it is not expensive. I am likely going to start
working at MIT soon. I do not like that the Childrn's Hospital opportunity did not work-out. I feel they
were dishonest in having offered me a chance and then later tellign me it was no longer available.
I think what has happened is for the best since I can more easily learning ocdign o obtain advice about my systems. The
speech to text system likely will have to be per user since a generic system likely

will not work as well. SO, using a passowrd that saves preferences wuod be the best route. The
medical records system will involve much mor beuracracy since hospital administrators would have to vote
to implment it and no one seems interested in getting rid of the paper record. I may
be wrong since I have not discussed the idea fully. I have always been open with the idea. Simply, I have not given every detail
since I want to work on it and need more time to fully develop it.

October 8, 1999

I like Revere. I har bad things about it, but I like where I live since it is close to everything.

I do not have much time to work on the computing languages since i am spending most of my time reading research papers. I have read some computer science papers on speech to text systems and they talk about hidden Markov Models and the various libraries involved in a decent program.

I may one day liek to try to write one. The medical records system is too tough. I do not know how to get the old records in paper to electronic forms.

Maybe I coudl scan them and save them as a pictures of somesort. I think that is the best route and then the new informatino can be seprate forms that are simply added to the scanned informatino. They would be organized with dates. So, the newer informatino woudl simply be additions to the record. The new forms wuold be on the medical persons personal computer for completion and sending to the server.

November 8, 1999
I did not realize that MIT was such a large computer science school. I can find all
the information I need in the engineerign library.
I am pretty busy in the lab. I want the opportunity to work.
Teh computer in the lab is an Apple that I am repairing. But it raises the issue of
the medical system and the speech system workign on different
computer platforms. I guess it would nto matter depending on the coding and how the
forms can be accessed. But I cannot
make the systems only useable for one type of operatin system or types of computers.
 For example, overseas the speeach to text system may not work on their specific
computers if it is not
what is required so the text over the internet would not be received.

December 8, 1999
I am learning a good deal in the lab, but I wish we coudl move forward with a
project. I am scared that
we will not move forward as what happened in my last experience.I am goign to need
more money to do the speech to text idea. I am writing Java script,
but I have noticed that C++ likely is the best language for a speech to text
program.
Hopefully I will have the time to learn it. The medical records idea involves legal
issues relatde to patient privacy. But I
am guessig that if a person is carrying the ID, they are not botherde that the
appropriate parties that will also need IDs to access the system
will see their inforamtion especially if they can restrict portions of it.

January 8, 2000
I should not have left before New Year's. I shoudl have stayed at home to celebrate it with the family since being here
made no difference.I am going to try to take at least a class while I am here. I might sit-in on programming classes. I am gettign somewhat
tired of keping even these simple records since I do nto see the point. MEdical images take=up
a good amount of memory and I woudl imagine wuodl slow down a computer. So, processing speed has to increase significantly for a portable computer to be useful. Otherwise, why woudl a medical person want to use a system that takes endless time to provide inforamtion.
The speech to text system is easier since it can send simple words or phrases, text, not large pictures or files.

March 11, 2001

I am going to build a team of peopel to work on the medical idea at least. I think that it cuodl be more financially advantageous sicne a big problem exists and a need for the medical records on the network or a global server for medical histories seems to be more in need and wanted than the speeech to text system. I cannot find too many groups that would pay for the speech to text system in the courts, where I see it most of interest. The skeptics indicate that I could never get the courts or legal groups to decide on what computers should be allowed in the courts and people have warned that client privacy rights cuold be violated. I do nto see the client rights matter an issue because the judge woudl decide if the computer sysem cuold be used in a trial, like with Court TV.

April 11, 2001

I am interviewing people for the team and I am meetnig good people. I am also bringing on people as advisors.

I am writing a business plan for the medical histories on a global server idea that is time consuming. The speech to text work is alsways in the works but I am looking for other uses besides the courts. I will see if sports reporting or broadcasting would be interested. I have picked-up some emergency room forms that I will try to convert to digital form. They could be the base for the forms we use on the system.

May 11, 2001
I am becoming annoyed that I keep taking records on this computer. I do nto have
the time or the energy anymore. Sometimes after working on the medical histories
idea I am so tired that I cannot sleep. I think when I go home over the SUmmer I
will take this computer to get it out of my room in MA
to give me more space. Sports broadcasters do not seem to like technology. They do
not like computers or possibly having to learn new tools according to the student
sports reporter I asked.
I am not certan what kind of handheld unit woud be good to use for the medical
records idea. what is on the market now is not that good anyway
in terms of presentation of informatino and speed.